



ELECTRONIC TRUCK SCALES USER MANUAL



TUNAYLAR

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1. TECHNICAL SPECIFICATIONS

Type	LL2 - LL3	LL2WT - LL2WTS
Mains Voltage	220 V AC - 50/60 Hz	110 V - 240 V AC
Operating Voltage /Power	12 VDC / 5 W (max.)	12 VDC / 62 W (max.)
Operating Temperature	-10C°....+ 40°C / %85 RH	

2. TYPE APPROVAL CERTIFICATE AND INSPECTION DATA

The electronic scale is used in two different fields. The fields of utilization are indicated in Article 2 of the Regulation for 2009/23/EC Non-Automated Weighing Devices. This Regulation that was published by the Commission of the European Community in 1990 and applicable in the member states of the Union since the 1st of January 1993 was published in the Official Gazette in our country as the compulsory regulation on the 17th of April, 2002 and became effective as of January 01, 2006. According to this:

A) Metrological Use (2009/23/2A):

- * Determination of mass for commercial transactions.
- * Determination of mass for the calculation of a toll, tariff, tax, bonus, penalty, remuneration, indemnity or similar type of payment.
- * Determination of mass for the application of laws or regulations or for an expert opinion given in court proceedings.
- * Determination of mass in the practice of medicine for weighing patients for the purposes of monitoring, diagnosis and medical treatment.
- * Determination of mass for making up medicines on prescription in a pharmacy and determination of mass in analyses carried out in medical and pharmaceutical laboratories.
- * Determination of price on the basis of mass for the purposes of direct sales to the public and the makingup of prepackages.

B) Other Use (2009/23/2B):

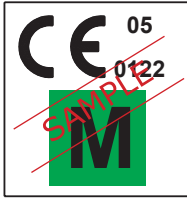
- * All applications other than those listed hereinabove

The use of the weighing device in accordance with its purpose and the categories, mentioned hereinabove is under the responsibility of the user of the weighing device at issue. The customer is obliged to indicate the category where he/it will use to the manufacturer at the purchasing stage.

2.1. Metrological Use (2A)

For the utilization of the weighing device at the metrological field, it is primarily necessary to have the EC Type Approval Certificate and to use a certified load cell. Therefore, it is requisite to complete necessary inspection procedures and make the markings. The inspection procedure can only be carry out by the Certified Organization or manufacturer that has obtained a verification authorization from the Approved Organization.

The weighing device is marked by the verification mark after the completion of its inspection and then, stamped according to the stamping plan, indicated at the EC Type Approval , and commissioned accordingly. Our Declaration of Conformity documenting the conformance of the weighing device to the related directives will be sent to your address.



A. CE + GREEN M

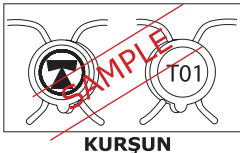
- CE : EC mark of conformity
- Green M : The first inspection is effectuated at this weighing device.
- 05 : The year when the first inspection is carried out; 2005 in this example.
- 0122 : Our Company, Tunaylar Baskül San., is accredited by the Nederland Meet Institute in order to effectuate the EC inspection procedure.
European Union's Authorized Body No.: 0122.



Indicates the classification mark where the weighing device is subject to.



VEYA



C. SEAL

The weighing device is sealed off by the lead or a label after its first inspection and pertaining protection is provided against the change of metrological data by the authorized individuals.

If the seal is torn off or broken off, then the inspection will be invalid and the weighing device will remain out of use for the legal metrology.

Check the state of the seal on the weighing device.

2.2. Other Use (2B):

In the event that the scale will be used in other applications apart from the metrological area (2A), it will not be marked by the Green M. The name of the manufacturer, trademark and maximum capacity of the weighing device and the wording "CANNOT BE USED IN PURCHASING AND SALES PROCEDURES" are indicated as a definition mark on the measuring machines or scales, used at the works beyond the legal metrology (areas not used in the purchasing-sales procedures) and the CE mark is affixed to the same. Our declaration of conformity indicating the conformance to the Electromagnetic Conformity (2004/108/EC) and Low Voltage (2006/95/EC) Regulations takes place in the user manual.

3. LEGAL WARNING

The first inspection procedures of the scale that you may purchase will be made by our firm and delivered accordingly.

It will be under the responsibility of the user to have the periodical inspection of it be made again once in every 2 years from the year of manufacture. You should apply to the Division for the Measurements and Adjustments of the Directorate of Industry and Trade of the Province where you are located in until the end of the month February two years after the year of manufacture for this official procedure. The year of manufacture is indicated on the definition label at the overleaf of the weight indicator.

Keeping any weighing device that has its legally envisaged sealing period elapsed or is open for due intervention available or use of the same in this respect and having its repair and measurement be made by any individuals or establishments holding no Authorization Certificate from the Ministry within this scope is an criminal offence pursuant to Article 14Ib-d-e of the Law no. 3516 for Measurements and Adjustments, and you are especially requested by us to show requisite attention and care on this matter and remind this legal warning to the persons you are responsible for.

4. EXPLANATIONS RELATED TO LEGAL WARNING

4.1. Periodical Inspection

The scale will be subject to an inspection once in every 2 years from the date of its manufacture and the related official organization will be applied until the end of February. The service, required for the periodical inspection, can be provided by our firm or authorized services as well.

4.2. Legal Warnings to Pay Attention to While in Use

The temperature interval, indicated at the Definition Label, must not be exceeded in the use of the weighing device. It is necessary for the scale not to be exposed to any external intervention according to the applicable laws and regulations.

Therefore, the box where the load indicator and cells are conjoined is sealed off and secured accordingly. It is a criminal offence to keep and use any weighing device that is exposed to any external intervention and has a seal destroyed in this respect. Therefore, you are requested to take this warning of us into consideration while getting service both from our firms and authorized or other services. If it is necessary to open the seal during the service procedure, please warn the parties providing the service for its re-sealing.



The legal requirements may vary depending on the countries' own domestic law.

5. PRIVATE TERMS

Necessary manual for training, use and maintenance has been given to the scale officer in order to use the electronic scale that you have purchased.

The entries and exits of the scale may cause some erroneous results especially in the scales for vehicles that may arise from the mud and squeeze of other effects (such as pebble, sand, cement and so on). These kinds of errors may cause more serious troubles at the end of failure to make regular controls on a scale. It is also necessary to check the connection bolts of the scale in a regular manner as well. For this occasion, we recommend you to check the scale in a regular manner within the direction of the maintenance manual.

The changes in voltage and frequency and power failures as a result of problems that are caused by the electricity lines and systems occur very often in our country. The electronic scale, installed at your firm, is a system based on the digital technology. Therefore, it is necessary to protect such devices. An interrupted power supply (ups) that we recommend you to purchase will have a buffer function by protecting the devices of the scale that you have purchased on the one hand and ensure the same to operate for a specific period of time in case of power failures.

Additionally, it keeps the electric power at 220 V and required frequency continually by means of the "regulated" circuit that is a technical specification of the ups. It further makes itself be operational in case of any voltage and frequency changes beyond the limits and ensures your devices to be functional in a proper manner.

6 . MATTERS TO PAY ATTENTION TO IN ADVANCE OF THE OPERATION OF THE SCALE



- Control the mains voltage and especially your ground cable in advance of operating the scale.
 - While switching the scale on, it is necessary to turn on the printer first, then, monitor and finally weighing terminal I indicator, and while the devices are turned off, firstly the weighing terminal I indicator, then monitor and finally printer should be turned off.
 - When the weighing terminal I indicator is switched on , the device will test itself and then pass into the weight indication mode. In case of any breakdown, it will warn the user by the indication of the error code.
 - Do not disassemble and assemble the serial exit, load cell connection and printer connector while the Weighing Terminal I Indicator is operational.
- Before you start the weighing procedure, please leave the weighing terminal I indicator in an operational state for a period of 5-10 minutes. This procedure ensures the weighing terminal I indicator to reach the environmental temperature conditions and electrical operation determination and as a consequence, help you prepare an environment to carry out the optimum weighing operation.
 - Make necessary image and screen adjustments by means of the function keys on the monitor.
 - Do not turn on the devices unless the connector of the load cell and printer cable is connected.
 - Do not disassemble and assemble the load cell and printer cable while the weighing terminal I indicator is operation.
 - It is absolutely necessary for you to operate the devices through a plug with the required ground connection for a proper operation of them.
 - You must not open the lid of the Weighing Terminal I Indicator without switching the power off.

7. INSTALLATION

The electronic scale is shipped away in a disassembled manner. The installation, connections and adjustment of the scale are carried out at-site by our personnel and necessary inspection procedures are made accordingly and the same is delivered to the user in an operational manner. The connection charts are indicated at the manual in order to be used when required. (See page 15-25).

8. CHANGE OF INSTALLATION LOCATION and MATTERS TO PAY ATTENTION TO DURING THE TRANSPORTATION

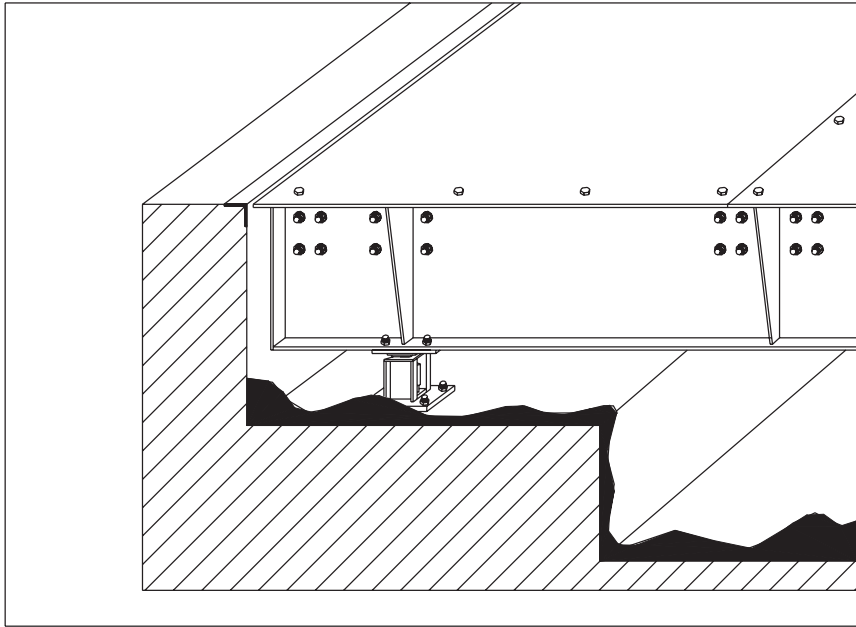
When it is required to change the location of your operational electronic scale, such change of location should be carried out by our personnel or authorized services.

- The scale is disassembled and then, installed its new location.
- The weighing platform of the scale due to be disassembled will be loaded on the shipment vehicle under the supervision of our personnel. Please take necessary measures in order that the weighing platform is not exposed to any blow during the shipment and discharge of it into the new installation place.
- Pack up other installation accessories (bolts, nuts) in a proper manner and ship away accordingly.
- Pack up related load cells, the weighing terminal I indicator, printer, monitor, load cell junction box and cables in a proper manner and ship them away in a way not to be exposed to any harm.

9. CHANGE OF INSTALLATION LOCATION and MATTERS TO PAY ATTENTION TO DURING THE TRANSPORTATION and INFORMATION RELATED to PERIODICAL MAINTENANCE

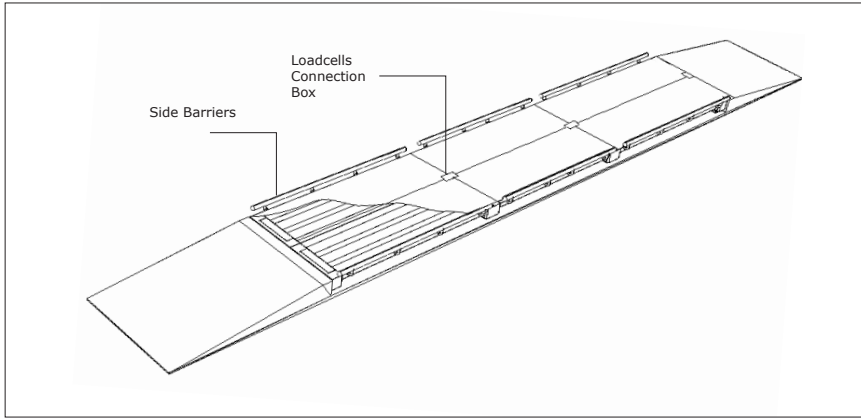
9.1. Weighing Platform

- * The scale platforms are standardized from the steel construction at our plants and are manufactured in the inner-ground, over-ground and flat surface types according to the manufacturing technique.
- * Carry out the maintenance, cleaning and periodical control of the platforms within the direction of principles, written herein below.
- * Take necessary measures in order to prevent the vehicles due to enter in the scale for weighing from fast and sudden brakes and warn the drivers in this direction.
- * Warn the drivers not to pull the emergency brake during their arrival and stop on the scale for the weighing of the vehicles and wagons.
- * Warn the drivers not to enter, exit and maneuver in the platform by the side direction at the inner-ground type scales or take necessary measures in this respect.
- * It is necessary to make slight barrier 2 meters in front of the end of the ramp of the over ground type scales and 1 meter in front of the entry or exit of the inner-ground types and the slow entry of the vehicles on the scale should be provided.

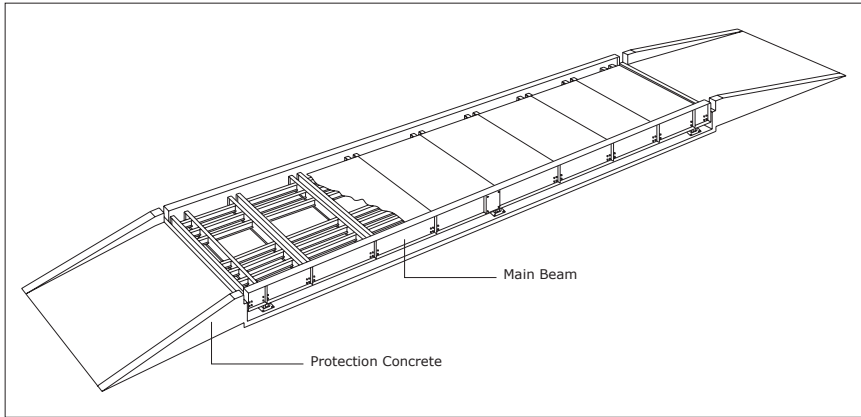


Drawing No:1

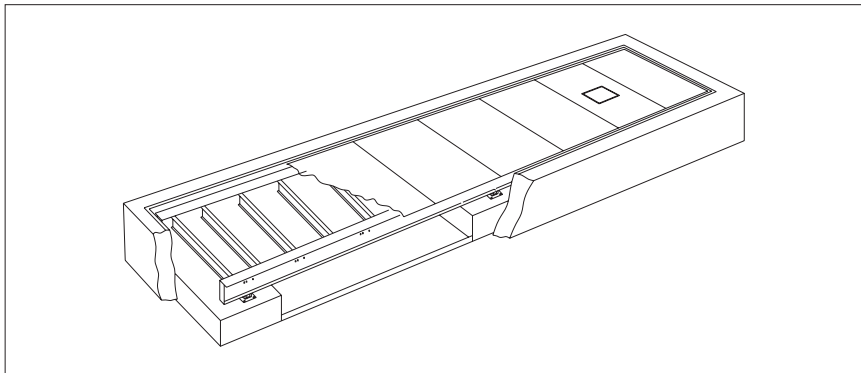
- * Take necessary measures in order to prevent the accumulation of any sand, pebble, soil, gravel and so on, on and around the platform during the weighing or as a result of environmental conditions. See the Drawing No. 1
- * Clean frequently the locations indicating the squeeze of materials such as mud, pebble, gravel, sand and especially snow in winter months in between the scale platform and corner piece as well as mainstays. See the Drawing No. 1
- * At the inner-ground types, it is absolutely necessary for you to keep the water outlet open in the scale pit. Definitely prevent the accumulation of water at the scale pit. Do not forget that the accumulated water will cause evaporation and accelerate the platform decaying quickly.
- * At the over-ground type scales, the side main carrying beams operate with the scale. In case any of them stands on the beams or placement of any weight from outside on the said beams, this will cause an erroneous weighing. Take this matter into consideration and make necessary warning. See the Drawing no. 3.
- * In the event that the protection concrete is broken, it is urgently necessary to make the new one instead. See the Drawing no. 3.
- * If some metal sounds come from the scale when the vehicles enter in the scale, you should check the bolts and mechanical parts of the scale.
- * Check the installation fixing bolts taking place at the scale platform every month in a regular manner; if there is any loose, tighten the bolts; and replace any broken and damaged bolts.



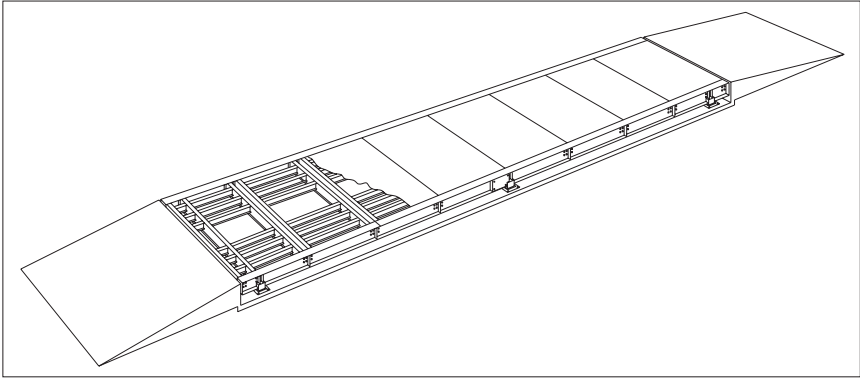
Drawing No:2 V-BRIDGE® Series Over-Ground Type Vehicle Scale Weighing Platform



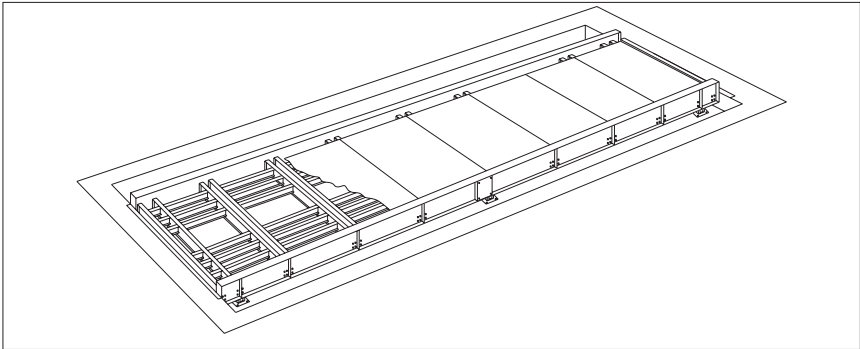
Çizim No:3 I-BRIDGE® Series Over-Ground Type Vehicle Scale Weighing Platform



Drawing No:4 PITBRIDGE® Series Inner-Ground Type Vehicle Scale Weighing Platform



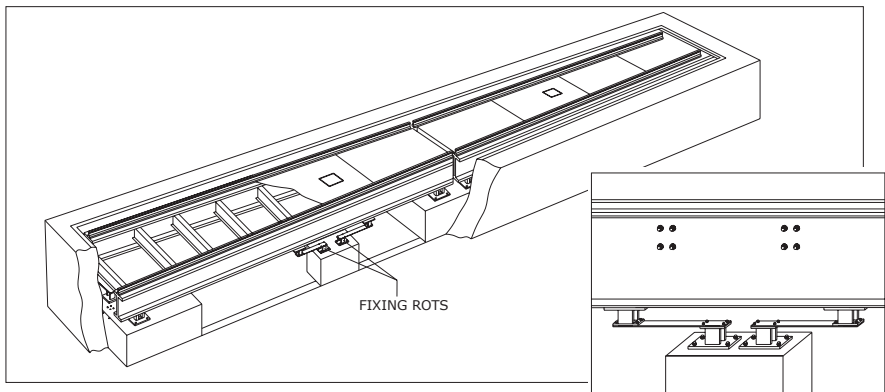
Çizim No:5 FLATBRIDGE® Series Flat Top Type Vehicle Scale Weighing Platform



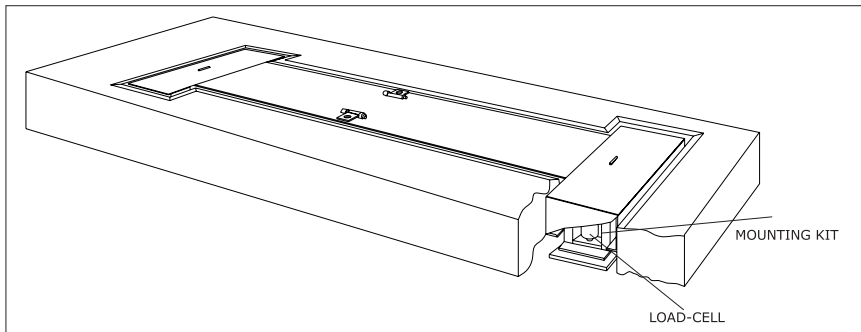
Drawing No:5 Semi-Pit Type Vehicle Scale Weighing Platform

- * Pay sufficient attention in order to prevent the load-cells taking place at the scale platform from touching any other point or place apart from the platform and check it once in every 7 days.
- * There is a clearance of 60 cm between the scale and concrete sheer at the semi-pit type scales. It is definitely necessary for you to close this clearance. Under the circumstances where this clearance is not closed, clean it and take necessary measures in order to prevent any water accumulation there.
- * It would be better for you to have a loaded vehicle be weighed at another scale within your close proximity and compare it with your scale. If this is not possible, weigh a load or a vehicle, of which weight is known in advance (tractor, truck, puck-up truck, forklift and so on) at the beginning, middle and end of the weighing platform once in every 15 days and thus, check the scale.
- * Paint the weighing platform in specific intervals.
- * It is absolutely necessary for you not to make any welding work on the weighing platform. In case of any break off of the connection cables for any reason whatsoever, you must not make its connection, instead call up our firm or authorized service.

- * Check the connection rods that absorb the lateral and vertical loads due to come to the platforms or load-cells at the wagon scales at specific intervals. See the Drawing no. 6
- * Pay special attention to the fact so that the rail, mounted on the weighing platform and entry-exit rails are at the same levels in the wagon platforms. If there is any difference in the level, take necessary measures pertaining thereto and inform the authorized persons of the matter.
- * Pay attention to the fact so that especially the tires on two rear axles do not come on the platform simultaneously during the weighing procedure at the pit-type axle weighing scales and warn the drivers in this direction. Otherwise, do not forget this may cause erroneous weighing.
- * There is 2 cm clearance between the framework angle and weighing platform at the pit-type axle weighing scales. Check these clearances frequently in order to prevent any squeeze with foreign substances and if there is any squeeze there, clean it away.



Drawing No:6 RAILBRIDGE® Series Railway Scale Weighing Platform

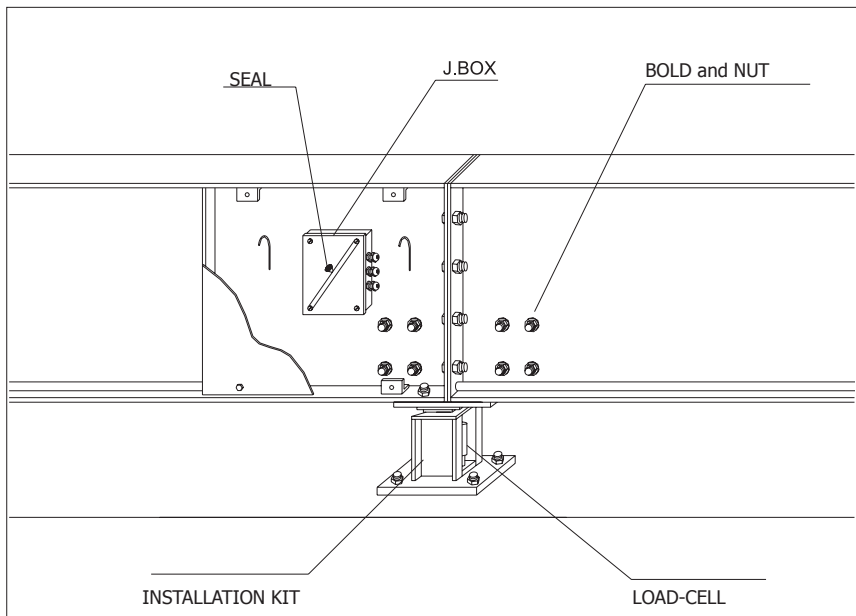


Drawing No:7 AXLELINE® Series Axle Scale Weighing Platform

9.2. Load-Cells

There are the load-cells available under the weighing platform in numbers convenient for the dimension and capacity of the scale. Carry out the instructions, written herein below, for a proper and precise weighing.

- * The load-cells have to be in a straight position according to the ground axis between the mounting foot and weighing platform where they are connected to. Check this situation and upper and lower mounting parts of the load-cells once in every 15 days. See Drawing no.: 8
- * It is necessary to maintain the cables where the load-cells are connected to, in the first mounting form and they do not have to be loose and scattered.
- * Pay attention to keep the surrounding area of the load-cells clean especially in the inner-ground type platform.
- * Since the load-cells having their surrounding areas are covered by mud, pebbles, sand, stone, ice and so on, will cause the scale to make an erroneous weighing, clean these substances by the pressurized water or air. Carry out such periodical control and maintenance once in every 7 days in winter months and once in 15 days, however, in summer months.



Drawing no.:8

9.3. Junction box of the Load-Cells

- * The junction box where the load-cells are conjoined with each other has to be mounted to the sidewall of the carrying beam in your weighing room direction at the inner- and over-ground type scales and not to be in mud or water. See Drawing No. 8
- * Check the junction box once in every 15 days in winter months and once in a month, however, in summer months.

The seal of the junction must not be damaged.

9.4. Weighing Terminal / Weighing Indicator

- * Use the device in the temperature intervals, indicated at its definition label.
- * Check through all connection cables in advance of the supply of power to the device. Repair if there are any loose, unconnected or broken cables.
- * Start up the device at least 5-10 minutes in advance of the weighing.
- * If the device does not fulfill its normal functions at the start-up position and this circumstance keeps going, notify our firm or authorized service about the matter.
- * Prevent the device from the direct. Keep the device away from any sources of heat such as fans, stoves and so on.
- * Do not press harshly or by the use of a pen, screwdriver or any other sharp instrument on the keys available on the device.
- * Under the circumstances where the (mains) power supply is cut off frequently during the operation, switch off the power plug of the device. Maintain the work when the main power supply turns to normal.
- * Use the pieces of non-hairy and slightly wet cloth for the cleaning of the device.
- * Make sure no water is splashed on the device. In case of spill of any water or other liquid substance, wipe the device out by cutting off all electrical connections of the device. Maintain the operation of the device after making sure that it is fully dried up.
- * Take all necessary measures in order to make sure that the definition label and security seal are not damaged and warn those, who use them. (See Weighing Terminal/Indicator User Manual)

9.5. Printer

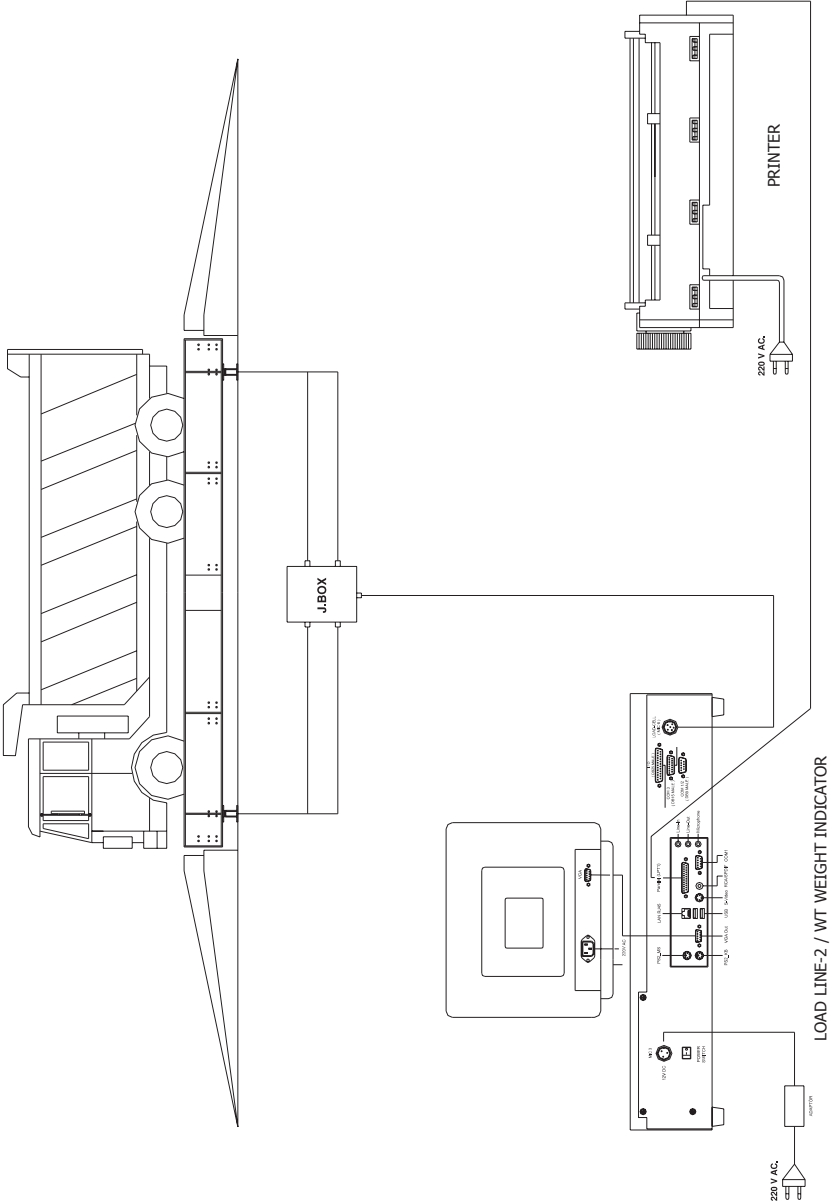
The information related to the use and maintenance of the KXP-1150 and ML - 1120 model printers are indicated herein below. You can find more information on this and different model printers in the user manual, granted with the product.

Brand	PANASONIC	OKI	JOLIMARK
Model	KXP - 1150	ML - 1120	DP321
Supply Voltage	220 - 240 V AC - 50/60 Hz	220 - 240 V AC - 50/60 Hz	220 - 240 V AC - 50/60 Hz
Power	200W	41 W	47 W
Operating Temperature	- 10°C ... +40 °C	5°C ... 40 °C	5°C ... 35 °C
Storage Temperature	-20 °C... +60 °C	-20 °C... +60 °C	-40 °C... +55 °C
Strip	KX-P 115 i	OKI - 43571802	JMR108
Weighing Slip	6 x 17 cm. (Autocopy paper)	6 x 17 cm. (Autocopy paper)	6 x 17 cm. (Autocopy paper)

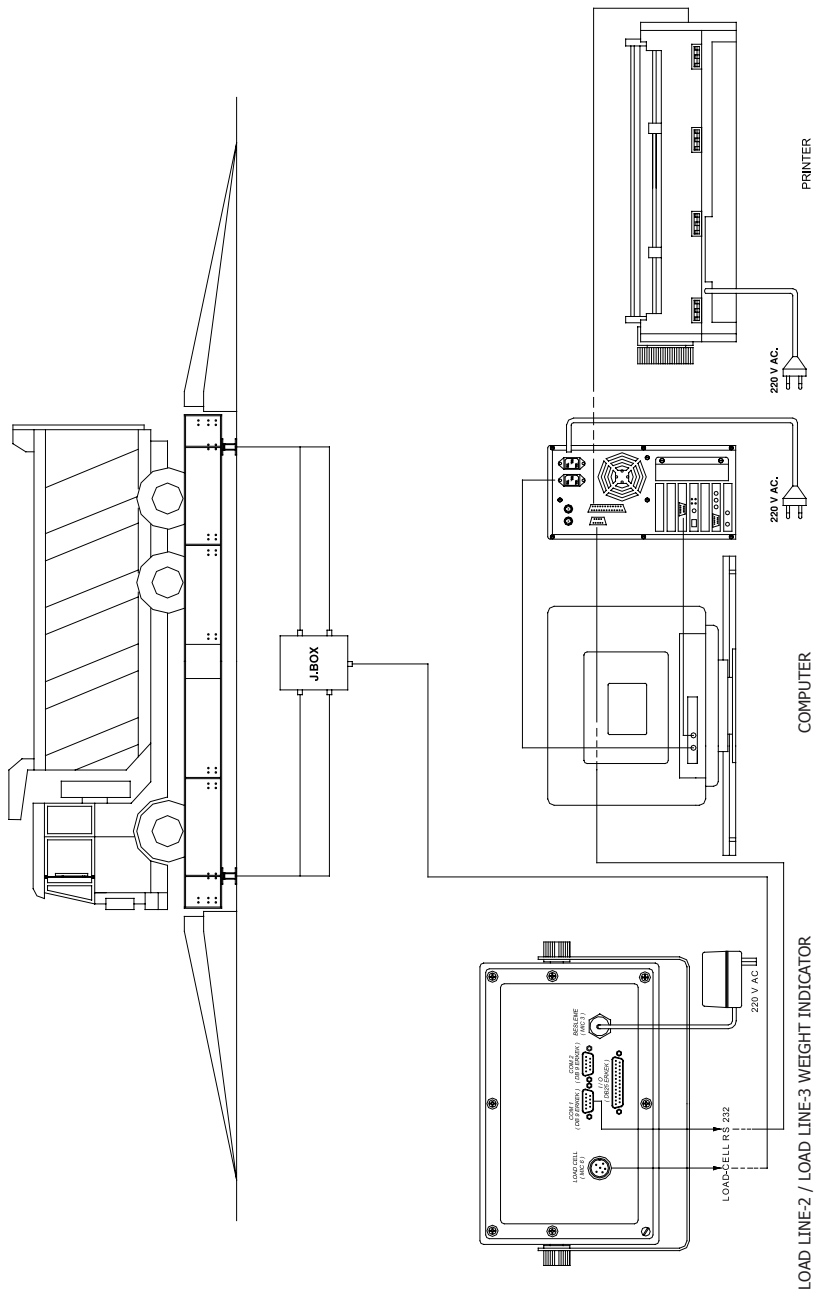
- * When the power is supplied to the printer first, check the indicator On and all other indicators showing that it is functional at normal positions and relevant sound is heard.
- * Maintain the printer with related measures in dust-free environments and against pollution in order to prevent excessive wear and tear.
- * Prevent the printer from the direct sunlight. Keep it away from any sources of heat such as stove, radiator and so on.
- * Disconnect the power plug in advance of cleaning of the printer.
- * Clean the outer parts of the printer by a slightly humid piece of cloth.
- * Clean all dusts, scattered pieces of paper in the internal parts of the printer by the use of compressed air.
- * Do not use any ammonium-based cleaning agents and dissolving liquids such as gasoline, thinner, alcohol and so on, on and around your printer.
- * Take the advantage of the user manual of the printer for further and detailed information.

10. CONNECTION CHARTS

WEIGHBRIDGE GENERAL CONNECTION CHART

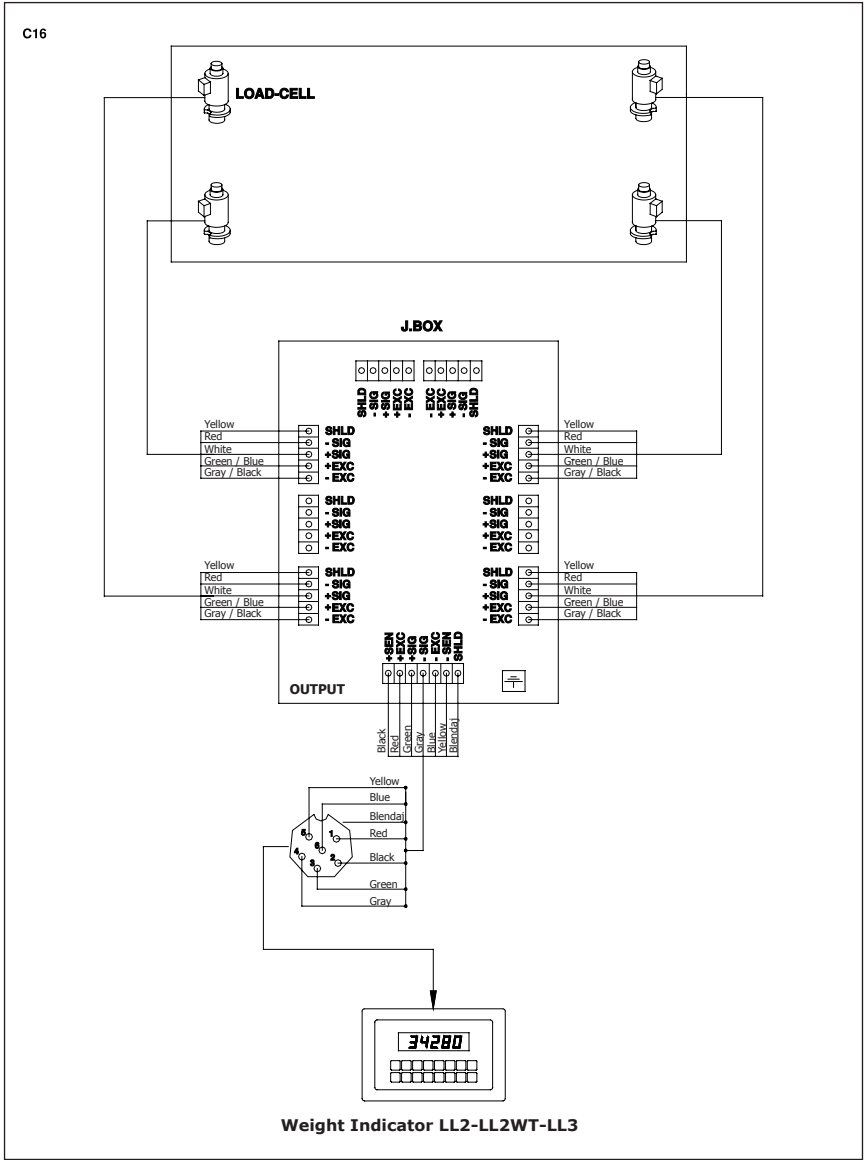


WEIGHBRIDGE GENERAL CONNECTION CHART



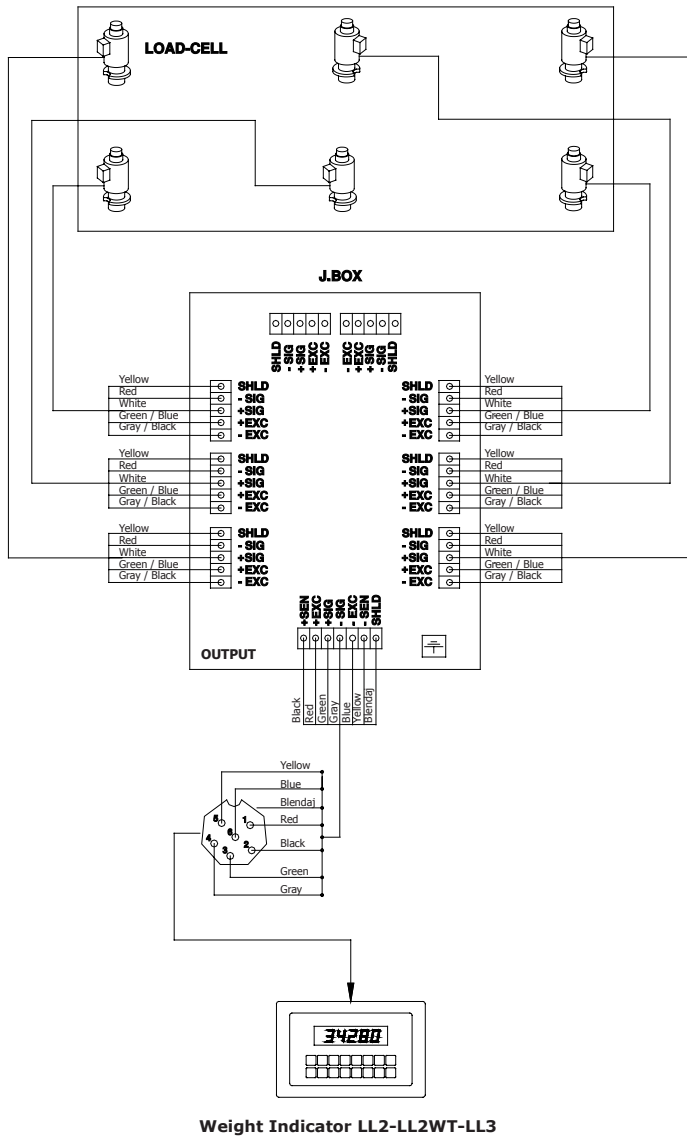
The connection charts of the standard load-cells are indicated between the 17th and 25th pages. In case of the use of any model load-cell different from the load-cells, take advantage of the weight indicator and connection chart of the load-cells.

ELECTRONIC SCALE CONNECTION CHART (4 LOAD-CELL)



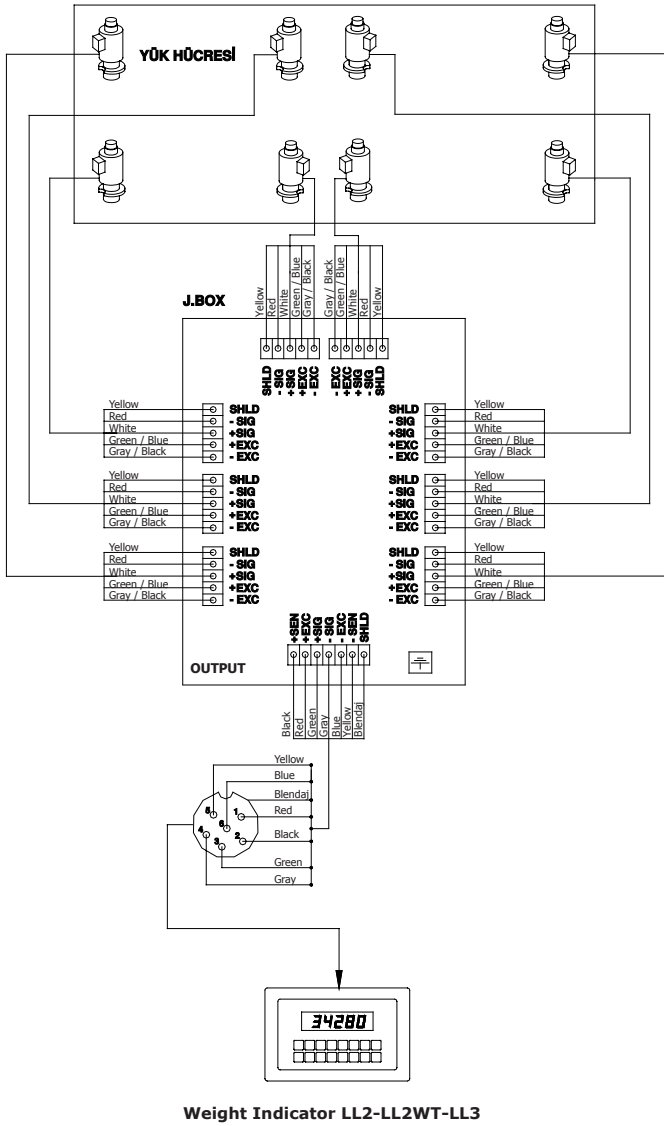
ELECTRONIC SCALE CONNECTION CHART (6 LOAD-CELL)

C16



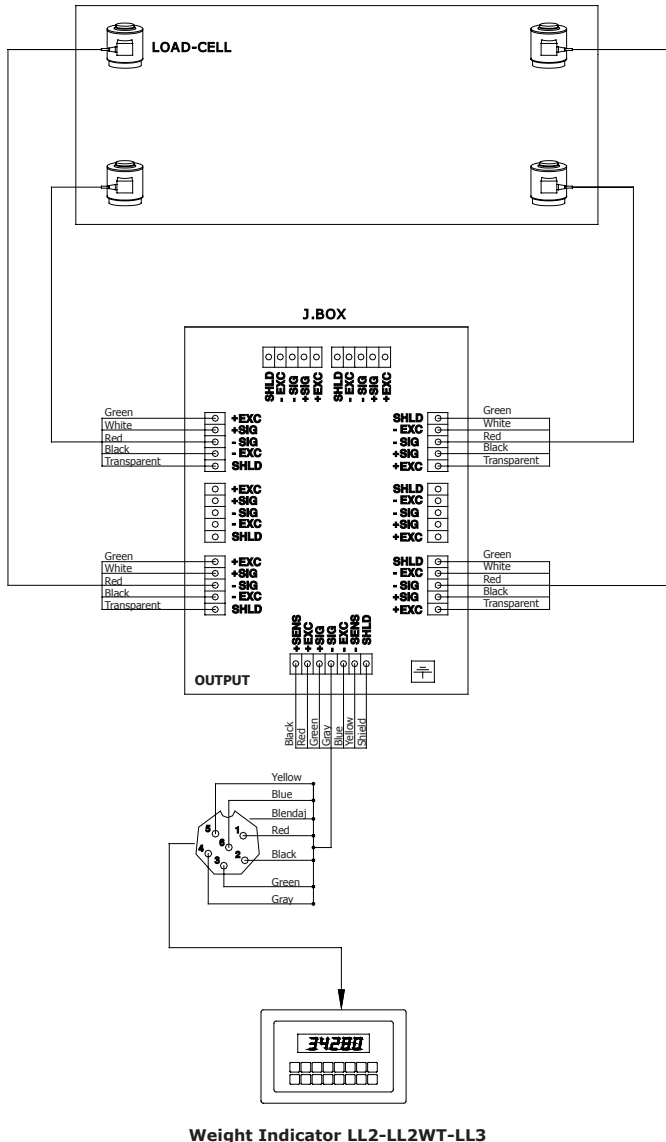
ELECTRONIC SCALE CONNECTION CHART (8 LOAD-CELL)

C16



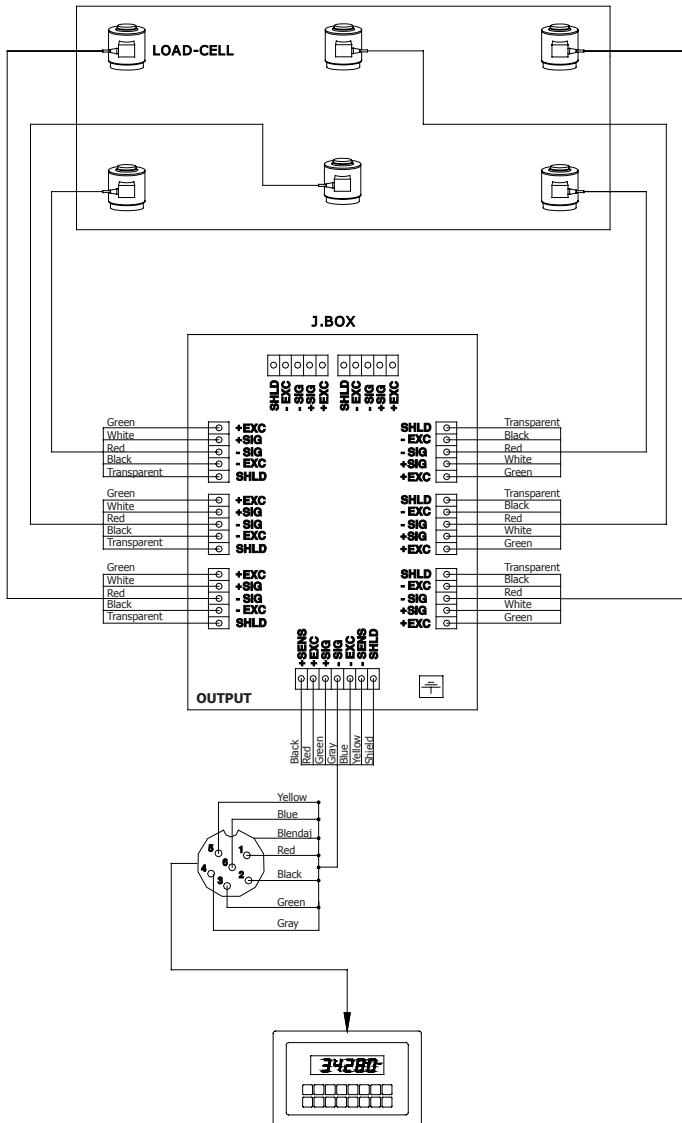
ELECTRONIC SCALE CONNECTION CHART (4 LOAD-CELL)

ASC



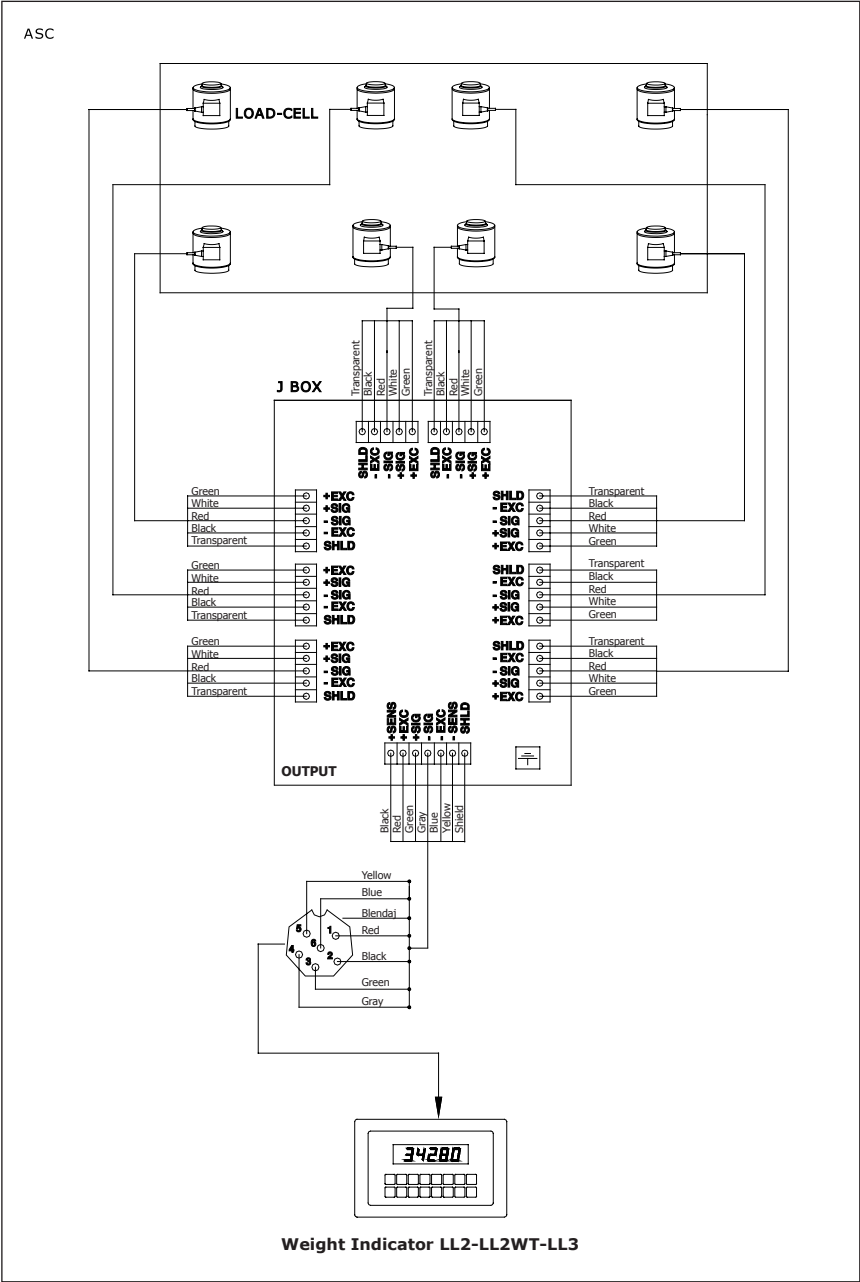
ELECTRONIC SCALE CONNECTION CHART (6 LOAD-CELL)

ASC



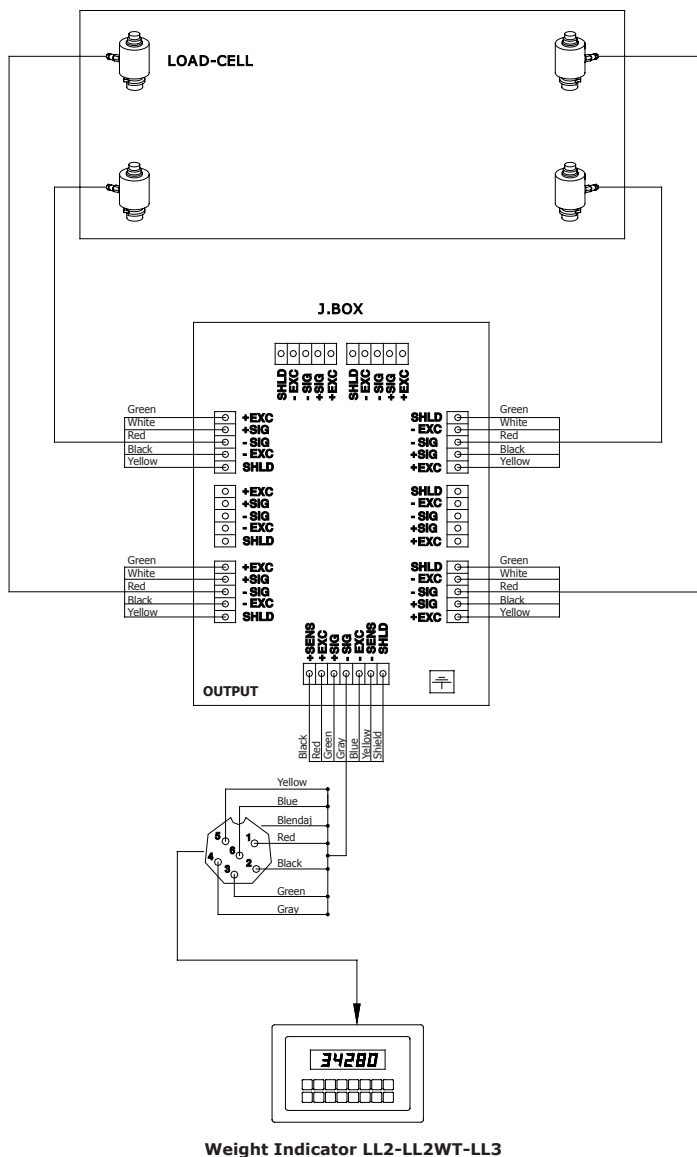
Weight Indicator LL2-LL2WT-LL3

ELECTRONIC SCALE CONNECTION CHART (8 LOAD-CELL)



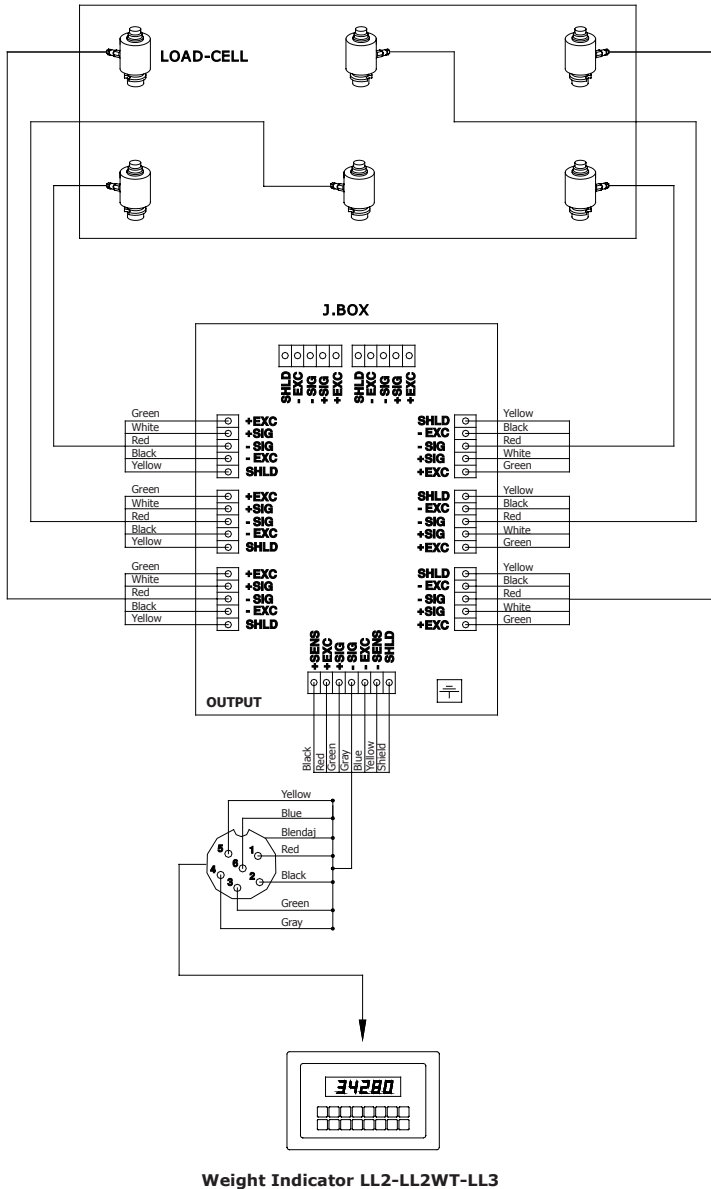
ELECTRONIC SCALE CONNECTION CHART (4 LOAD-CELL)

RC3



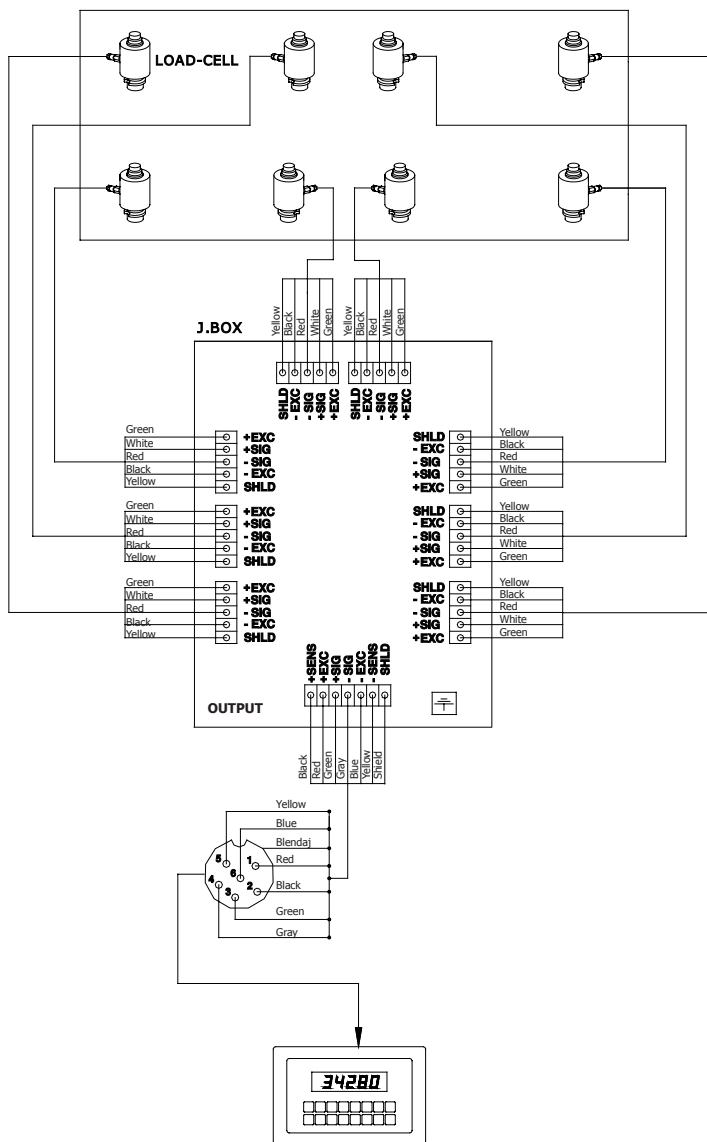
ELECTRONIC SCALE CONNECTION CHART (6 LOAD-CELL)

RC3



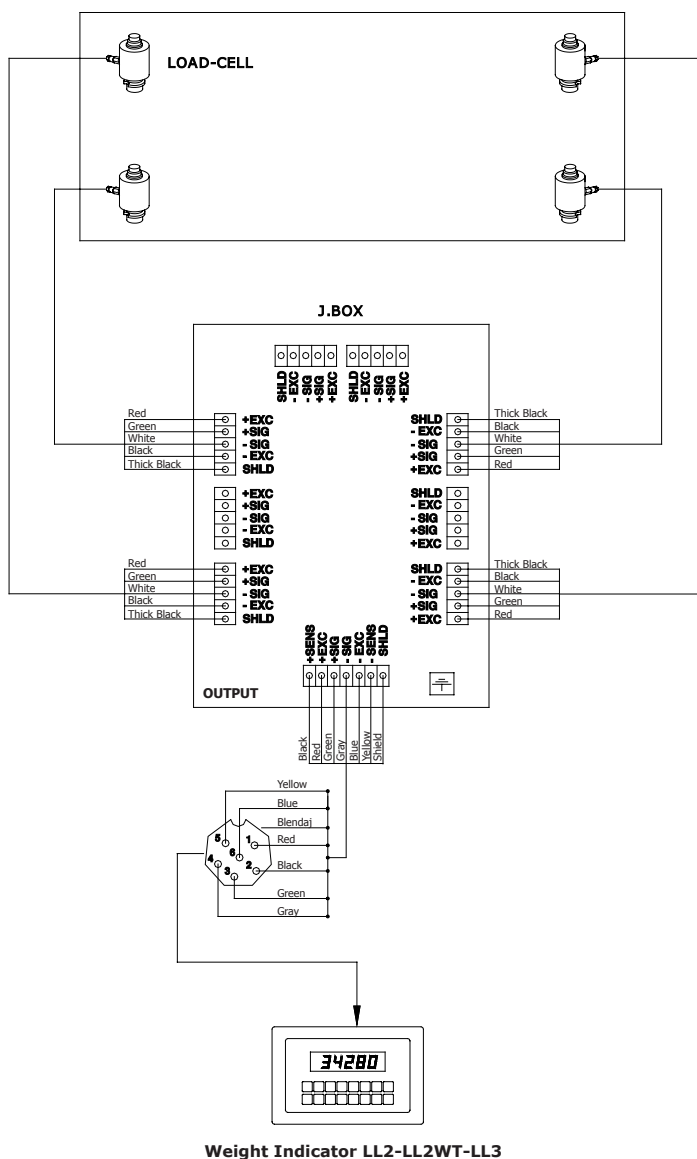
ELECTRONIC SCALE CONNECTION CHART (8 LOAD-CELL)

RC3



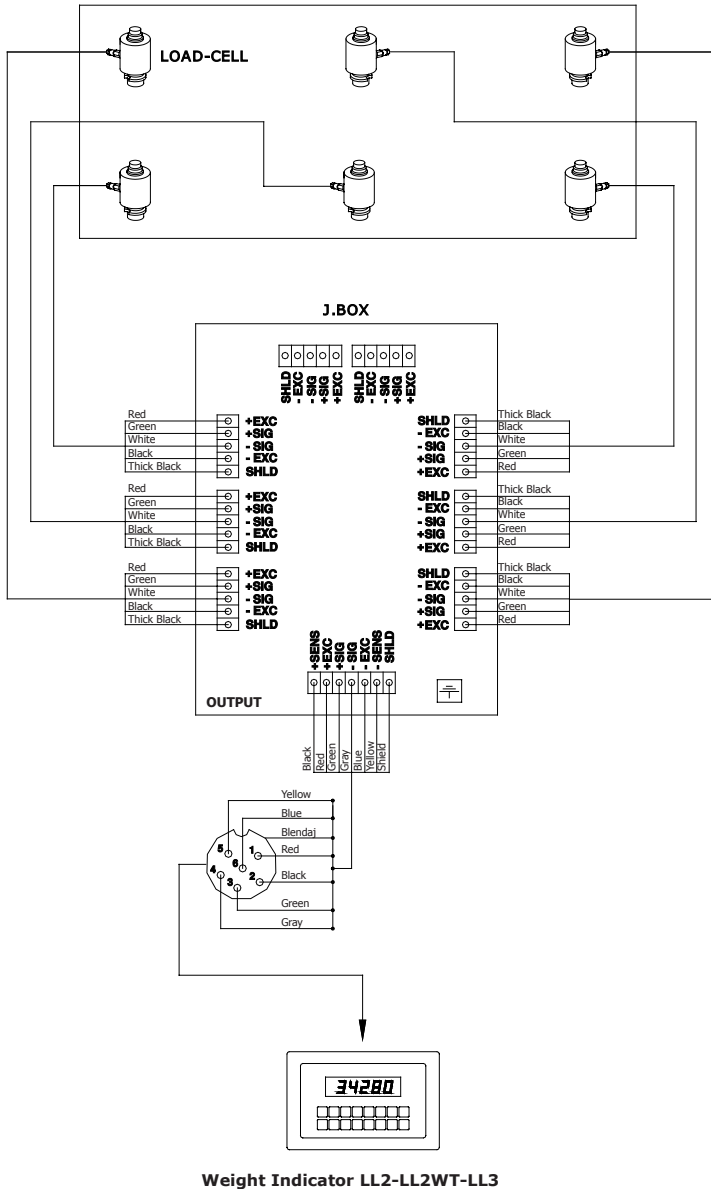
ELECTRONIC SCALE CONNECTION CHART (4 LOAD-CELL)

CT 036



ELECTRONIC SCALE CONNECTION CHART (6 LOAD-CELL)

CT 036



CT 036



11. INFORMATION AND EXPLANATIONS RELATED TO THE SERVICES

11.1. Information Text

1. First of all, we thank you for your preference of our firm and would like to submit our proposals, listed herein below, to your kind attention with relation to the after-installation services of the vehicle scale you have purchased in this respect.
2. The installation, initial start-up and inspection procedure of the vehicle scale you have purchased hereunder are carried out by our company. The person in charge of the scale has been delivered various booklets containing the use and maintenance services related to the scale along with necessary training. Your weighing scale (except those not used in any purchase-sales procedure) will be subject to an inspection once in every 2 years from the manufacturing year. You can apply by a petition to the Measurement and Adjustment Department of your Municipality for the weighing devices up to 1 ton regarding this procedure that is legally obligatory and to our firm, authorized service of our firm or Provincial Directorate of the Industry and Trade at the city where you have residence for the devices having a capacity exceeding 1 ton.
3. Our firm has put the well-trained personnel from our head office service into operation as the regional services in addition to the available services in this respect in order to provide you with more effective and swift service. In this context, our services have been equipped with the standard mass and calibration vehicles containing cranes especially for the repair, maintenance and adjustment of the vehicle scales. Any kinds of intervention that may be carried out by any individuals or establishments apart from our head office and authorized services within the warranty period will make the warranty scope of your weighing device invalid.
4. It is observed that the users prefer any individuals or establishments working either with or without Authorization Certificate as a result of economical reasons apart from our head office and authorized services for the procurement of related spare parts and necessary repair-maintenance, adjustment, periodical inspection of the weighing device. From legal point of view, any individual or establishment holding an Authorization Certificate is entitled to carry out a repair and maintenance work to a weighing device of any brand according to the document scope pertaining thereto. However, they do not have the authorization to change the load-cell and weight indicator that are the main parts. In such case, there are legal procedures that have to be followed up in this context. First of all, we recommend you to search through the technical capacities and facilities of the individual or establishment that you might have get in touch with and especially ask for the AUTHORIZATION CERTIFICATE. However, the individuals or establishments apart from our authorized services generally do make erroneous procedures and interventions due to their limited level of knowledge with relation to the weighing devices, manufactured by us, and elimination of such breakdowns cost you much more. Since these types of individuals or establishments especially make offers at considerably low prices either for the repair, maintenance and adjustment services or spare part replacements, they cannot give any guarantee for the works done and do not pay much attention to your complaints in case of the reiteration of the breakdown.
5. Under the circumstances where we are indicated hereinabove, you are kindly requested and recommended to transmit all sorts of your proposals, problems and complaints in any kind whatsoever to our head office and authorized services that we indicated as follows or directly to the person at our Company, Mr. ERHAN TUNAY. Necessary technical support will be provided within the shortest period of time.

11.2. Warranty and Information Related to the Warranty

Necessary examination for any breakdowns and defects that may arise within the warranty period as a result of manufacture, material and workmanship defects will be carried out by our firm; and if the breakdown becomes definite and final, we hereby guarantee that we shall eliminate the breakdown and replace the spare part on free of charge basis. Your warranty certificate is sent in the attachment of your invoice. The warranty period is indicated at the certificate of warranty.

Any breakdown, maintenance, repair and part replacement services that may arise as a result of reasons not falling within the scope of warranty, indicated herein below, are provided in return of payment pertaining thereto.

1. The power supply line is affected by lightning.
2. In case of any breakdown of the load-cells and other devices as a result of any welding, carried out on the scale platform (steel parts) or of taken chassis from the platform;
3. In case of any breakdown of electronic devices as a result of occurrence on or supply of high voltage to the power line;
4. In case of a wrong connection on the plug or board supplying power to the weighing system;
5. In case of any breakdown occurring as a result of phase connection to the earth end of the ground cable;
6. In case of any breakdown occurring on the scale as a result of insufficiency of the ground line, supplied by you;
7. Opening or repair of the weighing terminal and other electronic devices and related repair of the same by you without any permission within the warranty period;
8. Failure to make any drainage and as a consequence, breakdown of the load-cells when they remained in the water;
9. Putting excessive amount of weight on the scale more than the capacity of the scale and causing a breakdown in this respect;
10. Tearing off, crushing or cut off of the connection cables of the scale for any reason whatsoever;
11. In case of breakdown of the devices through the exposure of the weighing room to the excessive dust leakage, (entry) of water in the devices and exposure of it to fire, exceedance of the operating temperature interval
12. In case of any breakdown occurring as a result of collusion of trucks into the scale platform at the over-ground type scales;
13. In case of any breakdown occurring as a result of maneuvering of truck or trailer over the scale platform and improper entry-exit of the same at the inner-ground type scales;
14. In case of any mechanical or electronic breakdowns occurring as a result of incomplete or defective application of the substructure and ground project, supplied by us.